



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010582
CERTIFICATION DATE: February 19, 2014
DATE RECERTIFICATION DUE: August 18, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of $k=3$. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

Timmy L. Neece, Jr.
Forensic Scientist

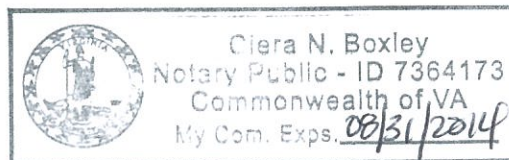
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 28th day of February 2014 by Timmy L. Neece, Jr.

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

mmb



DBH
TLN

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/20/2014**

Instrument Serial Number: 010582 **As of 20-Feb-14**

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
19-Feb-14	19-Feb-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
06-Jan-14	03-Sep-13	MMB (26417)	REPLACED UPS BACK-UP BATTERY.
03-Sep-13	03-Sep-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED.
18-Mar-13	18-Mar-13	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
26-Sep-12	26-Sep-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
11-Jul-12	11-Jul-12	DBH (21250)	CERTIFIED.
14-Jun-12	14-Jun-12	DBH (21250)	CALIBRATED BAROMETRIC PRESSURE SENSOR, CERTIFIED
11-Jan-12	11-Jan-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD
21-Jul-11	21-Jul-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
25-Jan-11	25-Jan-11	RJP (22428)	CERTIFIED.
11-Aug-10	11-Aug-10	RJP (22428)	CERTIFIED.
19-Feb-10	19-Feb-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
26-Aug-09	26-Aug-09	RJP (22428)	CERTIFIED.
23-Apr-09	23-Apr-09	NMJ (22392)	CERTIFIED.
01-Apr-09	01-Apr-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
04-Feb-09	04-Feb-09	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
TLW

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010582** Worksheet Start Date **2/19/2014**
Location **Goochland CO SO**
Address **2938 River Rd West Build G Goochland VA 23063**
DFS Technician **Donald Hall** License No. **21250**
☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) **748** Reference Barometer (mm HG) **748**
Reference Barometer(RB)Serial # **009109** RB Calibration Due **8/1/2014**

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.298
0.300	0.295	0.286	0.303	Sample 2	0.298
Precision		sample min	sample max	Sample 3	0.298
0		0.298	0.298		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.099
0.100	0.098	0.095	0.101	Sample 2	0.098
Precision		sample min	sample max	Sample 3	0.099
0.001		0.098	0.099		

Dry gas standard Lot No. (with tank no.) **AG400202-45**

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:

50

Notes:

Instrument Serial Number

010582

Certification Date

2/19/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.244
0.250	0.246	0.238	0.253	Sample 2	0.244
Precision		sample min	sample max	Sample 3	0.243
0.001		0.243	0.244		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.148
0.150	0.148	0.143	0.152	Sample 2	0.148
Precision		sample min	sample max	Sample 3	0.148
0		0.148	0.148		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.079
0.080	0.079	0.076	0.082	Sample 2	0.079
Precision		sample min	sample max	Sample 3	0.079
0		0.079	0.079		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician



Date

2/20/14

Issuing Analyst



Date

2/21/14

mmB

DBH
TLN

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010582 Test Number: 445
Test Date: 02/19/2014 Test Time: 14:50 EST

Technician Initials: DBH

Dry Gas Target: 0.246

Lot Number: 2961225012-09 Exp Date: 11/01/2014

Tank Pressure: 428 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:50
BLK	0.000	14:51
CHK	0.244	14:52
BLK	0.000	14:53
CHK	0.244	14:54
BLK	0.000	14:56
CHK	0.243	14:57
BLK	0.000	14:59

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DBH
TLN

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010582 Test Number: 446

Test Date: 02/19/2014 Test Time: 15:01 EST

Technician Initials: DBH

Dry Gas Target: 0.148

Lot Number: 29512150I2-03 Exp Date: 11/01/2014

Tank Pressure: 71 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:01
BLK	0.000	15:02
CHK	0.148	15:03
BLK	0.000	15:04
CHK	0.148	15:05
BLK	0.000	15:07
CHK	0.148	15:07
BLK	0.000	15:09

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

DBH
TLN

Department of Forensic Science

Serial Number: 010582 Test Number: 447

Test Date: 02/19/2014 Test Time: 15:11 EST

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 0771308012-01 Exp Date: 05/01/2015

Tank Pressure: 507 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:12
BLK	0.000	15:13
CHK	0.079	15:13
BLK	0.000	15:15
CHK	0.079	15:15
BLK	0.000	15:17
CHK	0.079	15:18
BLK	0.000	15:19

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH
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Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010582 Test Number: 448

Test Date: 02/19/2014 Test Time: 15:22 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02 Exp Date: 05/01/2015

Tank Pressure: 507 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	15:22
BLK	0.000	15:23
CHK	0.019	15:24
BLK	0.000	15:25
CHK	0.019	15:26
BLK	0.000	15:27
CHK	0.019	15:28
BLK	0.000	15:29

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

DBH
TLN

Department of Forensic Science

Serial Number: 010582 Test Number: 449

Test Date: 02/19/2014 Test Time: 15:31 EST

Dry Gas Target: 0.295

Lot Number: AG322702-06 Exp Date: 08/15/2015

Tank Pressure: 477 psi Barometric Pressure: 748 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:32
CHK	0.298	15:33
BLK	0.000	15:35
CHK	0.298	15:36
BLK	0.000	15:38
CHK	0.298	15:39

Test Status: *Success*

Calibration CRC: AADAEA5F

Intox EC/IR-II: Accuracy Check

DBH
Tlr

Department of Forensic Science

Serial Number: 010582 Test Number: 450

Test Date: 02/19/2014 Test Time: 15:41 EST

Dry Gas Target: 0.098

Lot Number: AG400202-45 Exp Date: 01/02/2016

Tank Pressure: 1120 psi Barometric Pressure: 748 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	15:41
CHK	0.099	15:42
BLK	0.000	15:44
CHK	0.098	15:45
BLK	0.000	15:46
CHK	0.099	15:47

Test Status: *Success*

Calibration CRC: AADAEA5F

DBH
Tbn




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/19/2014
TEST EQUIPMENT NUMBER 010582		

RESULTS: TIME SAMPLE TAKEN 15:57 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 19 Feb 2014 at 17:23

DBH
TLN

Test Results

Instrument Serial Number 010582

Test # 000451 Subject Test

Test Location 1 Department of
Test Date 19 Feb 2014

Test Location 2 Forensic Science
Test Time 15:50
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 19 Feb 2014 End Time 15:58

Result Time 15:57

Result Date 19 Feb 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 15:51

Data Type BLK

Sample Value 0.000

Sample Time 15:51

Data Type CHK

Sample Value 0.098

Sample Time 15:52

Data Type BLK

Sample Value 0.000

Sample Time 15:54

Data Type SUBJ

Sample Value 0.000

Sample Time 15:55

Data Type BLK

Sample Value 0.000

Sample Time 15:56

Data Type SUBJ

Sample Value 0.000

Sample Time 15:57

Data Type BLK

Sample Value 0.000

Sample Time 15:58

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG400202-45

Standard Expiration Date 01/02/2016

Tank Pressure 1115

Barometric Pressure 748 mmHg

Blow Sample Number 1 Blow Duration 3.14 sec

Blow Volume 1752 cc End-of-Blow Time 15:55

Blow Sample Number 2 Blow Duration 3.16 sec

Blow Volume 1784 cc End-of-Blow Time 15:57

Tamper Evident Stamp a614c1ad

Test Status Code 0

Test Status Success